Contracts to Be Let

Bids received until Apr. 20, 1915.

Water Pipes, Valves, etc.

Sacramento, California, March 18, 1915.

Sealed bids or proposals for the furnishing and installing of riveted steel and cast iron water pipes, valves, hydrants and other appurtenances, in the streets, alleys and rights of way in the City of Sacramento, Sacramento County, California, for the City of Sacramento and endorsed, "Proposal for the Furnishing and Installing of Riveted Steel and Cast Iron Water Pipes for Sacramento, California," will be received at the office of the City Clerk, City Hall, Sacramento, Calif., between the hours of 10:30 and 11:30 A.M., Tuesday, the twentieth day of April, 1915, and will be publicly opened and read in the Council Chamber, City Hall, Sacramento, on Tuesday, the twentieth day of April, 1915, after 11:30 o'clock A.M.

All bids shall be made upon the blank form of proposal contained in a pamphlet with the contract, specifications and drawings, to be obtained at the office of the City Clerk, City Hall, Sacramento, Calif.

Each proposal shall be accompanied by a certified check, made payable to the City Clerk, amounting to (10) per cent. of the higher alternative bid. A liability bond amounting to fifty (50) per cent and a contract guaranty bond amounting to ten (10) per cent. of the contract price will be required of the successful bidder.

The funds for payment on said work must be obtained from the sale of Sacramento Water Mains Bonds bearing interest at the rate of four and one-half (4½) per cent. per annum, said bonds being on hand and unsold. These bonds must be sold and the money required for all work which is estimated may exceed the bid by at least fifteen (15%) per centum must be deposited in the City Treasury before the contract is finally signed.

Some of the More Important Elements of the Work are as Follows:

126,000 cubic yards of excavation,

126,000 cubic yards of backfill,

417,920 linear feet of cast iron pipe, four inches to sixteen inches in size.

39,990 linear feet of riveted steel pipe, twenty, twenty-four, thirty, and thirty-six inches in size,

758 hydrants,

1,472 valves four inches to thirty inches.

220 tons cast iron special fittings,

22,084 square yards of macadam, asphalt, Asphalt Macadam, and basalt blocks pavement to be removed and replaced.

The above quantities are approximate and given merely for the guidance of prospective bidders and are not guaranteed as correct.

Alternative bids are requested, (a) for the materials and work complete in every detail, and (b) for the material and work complete with the exception of freight charges on pipe, special fittings, hydrants and valves.

The City Commission reserves the right to increase or decrease the amount of any class or portion of the work or material as they deem necessary or proper and to reject any or all proposals or to accept any proposal, if they deem it to the interest of the City of Sacramento so to do.

It is the intention to let the work as a whole and not in parts.

A deposit of five ($5.00) dollars will be required for each copy of the pamphlet containing the complete contract documents which may be obtained from the undersigned.

M. J. DESMOND, City Clerk.

PROPOSALS FOR A GUARD HOUSE AND BAKERY. Office, Depot Quartermaster, El Paso, Texas, March 29, 1915.—Sealed proposals for the construction, plumbing, heating, electric wiring and fixtures, of a guard House and Bakery, at Fort Bliss, Texas, will be received in this office until 11:00 A.M., April 30, 1915, and then opened. Information furnished on application. Applications for plans, etc., should be accompanied by a certified check for $10.00 to insure their return. Envelopes containing proposals should be indorsed "Proposals for Guard House and Bakery, Fort Bliss, Texas," and addressed Major William Elliott, Quartermaster Corps, U. S. Army.

Bids received until Apr. 19, 1915.

Notice to Water-works Tunnel Contractors

OFFICIAL NOTICE NO. 23

PUBLISHED BY AUTHORITY OF THE COMMON COUNCIL OF THE CITY OF MILWAUKEE.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS.

Milwaukee, Wisconsin.

Sealed proposals will be received at this office until Monday, April 19th, 1915, at 10:30 o'clock A.M., for furnishing all materials and doing all the work necessary and required for constructing the Shore Tunnel and all shafts of the Linwood Avenue Intake on the western shore of Lake Michigan, in the City of Milwaukee.

The work to be done is included in one contract. It embraces the construction of a concrete lined tunnel and the necessary shafts, on the western shore of Lake Michigan, between the North Point Pumping Station and the Shore Shaft of the Linwood Avenue Intake Tunnel, or between the lines X and Y as shown on Sheet Number 1 of the plans. It requires the construction of approximately: Five thousand six hundred and eighty (5,680) lineal feet of concrete lined tunnel, nine (9) feet in internal diameter, and the necessary number of shafts, all as shown upon the plans and described in the specifications, now on file in the office of the City Engineer.

Bidders will submit prices as described in "Instructions to Bidders."

The time allowed for completing the contract shall be three hundred and fifty-five (355) working days (working days meaning such as are particularly described in the Contract).

The lowest competent bidder will be awarded the Contract and will be required to enter into a contract with sureties as required by law, which contract contains a bond with penal sum of 25% of the estimated cost of the work—being in this case $57,000.00.

Bidders are required to furnish bid bonds in the penal sum of $68,400.00, or in lieu thereof the bidder may deposit with the Commissioner of Public Works the sum of $34,200.00 in money or certified bank check, payable to the Commissioner of Public Works.

In case bonds are submitted with bids, local bondsmen or a surety company, authorized to do business in Wisconsin, will be required, said bond to be approved by the City Attorney as to form and execution before being presented with bid to the Commissioner of Public Works.

Specifications and blank forms of proposals can be obtained, and plans examined, at the office of the City Engineer.

The prices must be written in the proposal and also stated in figures. In case of variation, the written prices will prevail.

All moneys deposited will be returned to unsuccessful bidders on award of contract and to successful bidder when contract is entered into. Bid bonds will be cancelled under same conditions.

The Commissioner of Public Works reserves the right to reject any or all bids.

Bidders are required to submit with their proposals, the method they intend to adopt in carrying out this work.

Full sets of plans will be sent to any Contractor desiring to bid, upon the receipt of Ten ($10.00) Dollars.

Signed, FRED G. SIMMONS,
Commissioner of Public Works.

Countersigned,
LOUIS M. KOTECKI, Comptroller.

PROPOSALS FOR WIRE, WIRE STRAND, STAPLES AND CLIPS.—Mississippi River Commission, First and Second Districts, Custom House, Memphis, Tennessee, March 20, 1915.—Sealed proposals for furnishing and delivering about 725,000 lbs. galvanized wire, silicon bronze wire, wire strand, and staples, and 36,000 wire rope clips, will be received at this office until 12 m., April 10, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

Bids received until Apr. 21, 1915.

Water-works Improvements

Durham, N. C.

Sealed Proposals will be received by the Mayor and Board of Aldermen of the City of Durham, N. C., at the City Hall, until 3 P.M. April 21st, 1915, for "Water Works Improvements," consisting of:

River Pumping Station, City Pumping Station, Filter House and Concrete Clear Water Well, Coagulating Basin, Filter Equipment for four units of ¾ million gallons each, Laying nine miles 20-inch cast iron pipe, Two Radial Brick Chimneys.

Proposals must be marked "Proposal for Water Works Improvements."

All proposals must be upon blank forms provided in Proposal and Contract.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the bid, as an evidence of good faith.

Specifications, Proposal and Contract forms and plans will be on file in the office of the City Engineer in Durham or will be mailed upon application to the Engineer at Charlotte, N. C., when accompanied by the payment of twenty-five dollars to insure their return in good condition within thirty days after the date set for receiving proposals.

The right is reserved to reject any or all proposals.

W. J. BROGDEN, Mayor,
GEO. W. WOODWARD, Clerk.

Engineer—
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Apr. 19, 1915.

Water-works Construction

Peoria Heights, Ill.

Sealed bids will be received, for the construction of a Water Works System, by the Board of Local Improvements of the Village of Peoria Heights, Illinois, until the 19th day of April, A.D. 1915, at the hour of 8 P.M., at the Village Hall in said Village of Peoria Heights, Illinois, at which time and place said bids will be publicly opened.

The work will include:

a. 85,085 lineal feet of cast iron pipe with specials.
b. 98 Hydrants, 69 valves and 69 valve boxes.
c. Two (2) Centrifugal Pumps directly connected to Motors, and electric controls for same.
d. Construction of Pumping Station.
e. Construction of Steel Tower and 50,000 gal. Tank.

Proposals must be made upon blanks furnished by said Board and in compliance with the instructions thereto attached, and must be accompanied by cash or by check payable to the order of the President of said Village in his official capacity, certified by a responsible bank, for an amount not less than fifteen (15) per cent. of the aggregate of the proposal.

The right is reserved to reject any and all bids, as authorized by law.

Plans and Specifications may be seen at both addresses given below, or may be obtained by depositing five (5) dollars for each set, said deposits to be returned upon the return of plans and specifications in good order. Specifications used in making a bid will be considered as returned.

For further particulars address E. J. Brayton, Village Clerk, Peoria Heights, Illinois, or Chas. H. Dunn, Civil Engineer, 29 and 30 Arcade Building, Peoria, Illinois.

Bids received until Apr. 27, 1915.

Earth Levee

Augusta, Ga.

SEALED PROPOSALS, ADDRESSED to the City Council of Augusta, Ga., will be received by the River and Canal Commission at its office, 747 Broad Street, Augusta, until 4 P.M., Tuesday, April 27th, for furnishing all labor and outfit and constructing complete an earth levee along the Savannah River below the city of Augusta.

The work is divided into two contracts known as sections Nos. 5 and 6. There will be approximately a half-million cubic yards in each section. A certified check for $500 must be deposited with bid as a guarantee of good faith. A bond of $20,000.00 on each section will be required from the successful bidders. Payments will be made in cash on monthly estimates.

The right is reserved to reject any and all bids. Plans and specifications may be had on application to the undersigned.

NISBET WINGFIELD, Chief Engineer.

Bids received until Apr. 19, 1915.

Albany County Court House

Albany, N. Y.

Sealed proposals will be received at the office of the Clerk of the Board of Supervisors, City Hall, Albany, N. Y., until 12 o'clock noon, April 19, 1915, for furnishing and installing of the Steel furniture of a new Court House for the County of Albany, N. Y., situated on the southerly side of Columbia Street, between Lodge and Eagle Streets, in the City of Albany, N. Y.

Plans and specifications may be seen at the office of the Clerk of the Board at City Hall, Albany, N. Y., or at the office of Hoppin & Koen, Architects, 244 Fifth Avenue, New York City, after March 31, 1915.

Contractors desirous of obtaining copies of the plans and specifications for the purpose of estimating may do so by applying either in person or in writing to the above architects, who will loan them copies of the specifications and give them an order on a blue print firm, to whom the original tracings will be loaned. Upon receipt of such order a set of prints will be immediately forwarded to Contractor, who will pay printer for cost of prints.

No refund will be made for return of prints.

Dated March 31, 1915.

JOHN F. HYATT,
THOMAS WAREING,
EDWARD F. DEMPSEY,
NELSON BOYD,
FRANCIS VROOMAN,
Committee of Public Buildings of Albany County Board of Supervisors.

Bids received until Apr. 19, 1915.

Albany County Court House

Albany, N. Y.

Sealed proposals will be received at the office of the Clerk of the Board of Supervisors, City Hall, Albany, N. Y., until 12 o'clock noon, April 19, 1915, for furnishing and installing the finish of the Special Rooms of a new Court House for the County of Albany, N. Y., situated on the southerly side of Columbia Street, between Lodge and Eagle Streets, in the City of Albany, N. Y.

Plans and specifications may be seen at the office of the Clerk of the Board at City Hall, Albany, N. Y., or at the office of Hoppin & Koen, Architects, 244 Fifth Avenue, New York City, after March 31, 1915.

Contractors desirous of obtaining copies of the plans and specifications for the purpose of estimating may do so by applying either in person or in writing to the above architects, who will loan them copies of the specifications and give them an order on a blue print firm, to whom the original tracings will be loaned. Upon receipt of such order a set of prints will be immediately forwarded to Contractor, who will pay printer for cost of prints.

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THOMAS WAREING,
EDWARD F. DEMPSEY,
NELSON BOYD,
FRANCIS VROOMAN,
Committee of Public Buildings of Albany County Board of Supervisors.

Bids received until Apr. 12, 1915.

Notice to Bridge Contractors

Cumberland, Md.

Plans and Specifications, together with bids for construction of the Market Street Bridge, over Wills Creek, will be received up to 9:30 a.m. Monday, April 12th, 1915, by the Mayor and City Council of Cumberland, Md.

Proposition 1. For Concrete arch of twin spans; to be 134′ 6″ between abutments; Driveway 22′ 0″, two sidewalks 6′ 0″ each, grade of finished driveway above bed of Creek 20′ 0″.

Proposition 2. For steel bridge, ends to rest on present abutments, clear span 134′ 6″, with a centre pier allowed.

For further information and blue print of present situation, old bridge having been removed, apply to office of City Engineer.

The right is reserved to reject any and all bids if not deemed satisfactory.

JAMES P. GAFFNEY, City Engineer.

Bids received until May 15, 1915.

Pumping Engine

Binghamton, N. Y., March 26, 1915.

The Board of Water Commissioners of the City of Binghamton, New York, will receive sealed proposals until ten o'clock A.M., on the fifteenth day of May, 1915, for furnishing and installing complete:

One (1) Horizontal Cross-Compound High Duty Crank and Flywheel Pumping Engine of 10,000,000 gallons daily capacity.

Proposals must include all piping necessary within the engine room walls, together with such gauges, revolution counters, tools and attachments as are generally furnished to constitute a complete and first-class pumping plant of this capacity.

In order to receive consideration, proposals must be accompanied by a certified check made payable to the Board of Water Commissioners of Binghamton, N. Y., or a bond of some approved trust company and acceptable to the Board and in their favor in the sum of Two Thousand Five Hundred ($2,500) Dollars, which amount shall be forfeited to the above Board as representatives of the City of Binghamton without recourse by the company or person to whom an award of contract shall be made in case such company or person shall fail to enter into a contract with the city within fifteen (15) days after having been notified of such award.

Parties tendering proposals must file with such proposals a set of full detailed specifications which shall describe in a comprehensive manner the different parts of the engine, giving sizes and dimensions of the same, and also the name of the material from which parts are to be constructed.

There must also be furnished with all proposals detailed blue prints or drawings sufficient for the Board and its Engineer to easily understand the construction and working parts of the engine proposed.

The time necessary to construct and install complete the Pumping Engine proposed must be specifically stated, as a forfeit will be exacted in case the time limit named in the contract is exceeded.

The right to reject any or all proposals or to award a contract in such a manner or to such parties as may be deemed for the best interests of the City of Binghamton is reserved by the Board of Water Commissioners.

Specifications may be had upon application to the secretary.

JOHN D. DAVIDSON, Secretary,
Binghamton, N. Y.

Bids received until May 5, 1915.

Steam Turbine-Driven Centrifugal Pump

Kansas City, Mo.

SEALED PROPOSALS will be received by the Purchasing Agent of Kansas City, Missouri, at the office of the Purchasing Agent, Second Floor, City Hall, until two o'clock p.m. of Wednesday, May 5th, 1915, for the designing, construction, delivery and erection of a steam turbine, reduction gear, centrifugal pumping unit of a capacity to pump continuously twenty (20) million U. S. gallons of water per twenty-four (24) hours, against a total combined head of three hundred and sixty (360) feet and steam pressure of one hundred and sixty-five (165) pounds per square inch at throttle; together with all machinery, tools and appurtenances necessary; all in accordance with the plans and general specifications on file in the office of the Chief Engineer of the Water Department.

Each bidder shall deposit with the City Comptroller a certified check in the amount of Seven Hundred and Fifty Dollars ($750.00), payable to the City Comptroller of Kansas City, Missouri, and accompany his bid with the Comptroller's receipt therefor.

The certified check referred to in the Advertisement shall be submitted by each bidder as a guaranty that the bidder will, within ten (10) days after receiving the award of a contract, file with the City a satisfactory bond to the amount of Twenty-five Thousand Dollars ($25,000.00) and will execute the contract.

The Board of Fire and Water Commissioners does not bind itself to accept the lowest or any bid offered, and reserves the right to reject any and all bids and to waive any informality when it seems to be to the interest of Kansas City, Missouri, to do so.

J. P. LANGAN, Purchasing Agent.
BURTON LOWTHER, Chief Engineer.

Bids received until Apr. 12, 1915.

Barn and Vegetable Cellar

Bath, N. Y.

Sealed proposals for construction of Barn and Vegetable Cellar for the New York State Soldiers' and Sailors' Home, Bath, N. Y., will be received by Hon. Joseph A. Goulden, President, Board of Managers, New York State Soldiers' and Sailors' Home, Bath, N. Y., until 11 o'clock A.M. on April 12, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of $300.00 for the Barn and $100.00 for the Vegetable Cellar. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specification No. 2230. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Soldiers' and Sailors' Home, Bath, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York for each set of plans and specifications, which check will be returned when plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

WM. H. NICHOLS, Secretary.

Dated
Bath, N. Y., March 23, 1915.

Bids received until Apr. 20, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS.

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m., Tuesday, April 20th, 1915, for the repair of contracts in the following counties:

Albany (one contract—resurfacing 1.9); Broome (one contract—surface treatment 5.73); Chenango (one contract—surface treatment 1.07); Clinton (one contract—resurfacing 7.34); Delaware (one contract—surface treatment 1.00); Essex (one contract—resurfacing 3.64); Onondaga, three contracts (resurfacing—1.72, 2.21, 2.50); Oswego, two contracts (resurfacing—3.09, 2.09); Otsego (one contract—surface treatment 9.07); Rensselaer (one contract—resurfacing 2.46); Saratoga (one contract—resurfacing 3.79); Schoharie (one contract—surface treatment 8.49); Seneca (one contract—resurfacing 5.72); Sullivan (one contract—resurfacing 1.50); Suffolk (one contract—resurfacing 3.82); Warren (one contract—resurfacing 4.12); Wayne (one contract—surface treatment 7.01); Wyoming (one contract—resurfacing 1.28).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until Apr. 23, 1915.

Combined Sewer System

Kenosha, Wisconsin.

Sealed proposals will be received at the office of the Street Assessment Committee, in the City Hall of the City of Kenosha, Wisconsin, until the 23rd day of April, 1915, at 2:00 P. M., for 1500 ft. of 84"; 2700 ft. of 66"; 1200 ft. of 36"; 835 ft. of 30"; 1165 ft. of 24"; 470 ft. of 22"; 890 ft. of 20"; 980 ft. of 18"; 2980 ft. of 15" and 2250 ft. of 12" sewer, vitrified tile, vitrified segmental block, reinforced concrete pipe, concrete or brick.

Plans, specifications and proposal blanks may be had at the office of the City Engineer.

The right to reject any or all bids is reserved.

B. C. BRENNAN, City Engineer.

Bids received until Apr. 20, 1915.

Section 2, River Road

Mercer County, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of the County of Mercer, at their place of meeting, Court House, Trenton, N. J., on Tuesday, April 20, at 2:30 p.m., and then opened—

For the furnishing of materials, tools, machinery and labor necessary for the efficient and proper grading of the roadway, side ditches, side banks, and rolling, spreading and laying of road metal, and all the work of construction incidental thereto, for the improvement of a road known as "Section 2, River Road," with bituminous concrete. Said road beginning at station 100, plus 60, near Titusville, in the Township of Hopewell, and extending to the Hunterdon County line at station 252, plus 50.

As a guarantee of good faith, and to secure the County of Mercer from any loss by failure to comply with the terms of the bid, all bidders shall accompany their bid with a certified check, payable to the order of Joseph H. Black, county collector, in the sum of one thousand ($1,000) dollars, or like amount in cash, as a guarantee that if the contract shall be awarded to him he will, within thirty (30) days, execute an agreement in writing with the Board of Chosen Freeholders of the County of Mercer to perform the work according to the plans and specifications. Upon failure by the contractor to enter into said agreement with the Board of Chosen Freeholders, said certified check or cash shall be forfeited and considered as liquidated damages.

All bids must be enclosed in a sealed envelope addressed to the Board of Chosen Freeholders of Mercer County, New Jersey, and bearing on the outside the name and address of the bidder. The bid must be delivered at the Court House, Trenton, N. J., on or before April 20, 1915, at 2:30 p.m., and shall be plainly written on the outside of the envelope, "Proposal for Section 2, River Road."

No proposal will be received or opened unless these conditions are complied with on the part of the bidder.

The check of the successful bidder will be held until the contract is executed, together with a bond for a sum not less than the estimated cost of the road when completed, conditioned for the faithful performance of the contract in accordance with the plans and specifications, and approved by the Board of Chosen Freeholders or its committee.

Plans and specifications are on file in the office of Theodore Tobish, county engineer, Court House, Trenton, N. J., and at the office of the Commissioner of Public Roads, State House, Trenton, N. J., and may there be examined.

The form of proposal on file with the said county engineer must be the form used in making bids.

The right is reserved to reject any or all bids, or to waive any defect or informality in any bid, if deemed in the interest of the county to do so.

JOHN J. POWER, Director.

Bids received until Apr. 12, 1915.

Asphalt Road Oil

Montclair, N. J.

Sealed bids will be received by the Town Clerk of the Town of Montclair for furnishing asphalt road oil containing approximately forty-five (45%) per cent. of asphalt for use in oiling the streets in Montclair during the year of 1915.

Bids will be received both for furnishing oil in tank car lots, f.o.b. Montclair, or applied to the streets of the Town on a square yard basis, all according to specifications on file in the office of Edgar S. Closson, Town Engineer and there to be seen. Bids to be acceptable must be submitted on the proposal blank furnished by the Town; must be accompanied by a certified analysis of the oil; a certificate of the source of supply and method of manufacture; and a one quart sample of the oil which it is proposed to furnish.

The estimate of the amount of oil required is 130,000 gallons and the number of square yards requiring oiling is estimated at 800,000.

Each bid must be accompanied by a forfeit of three hundred and twenty-five ($325) dollars to insure the signing of the contract and bond by the successful bidder within two weeks after the award shall have been made.

All bids must be in by Monday, April 12th, 1915, at 8 p.m. at the Town Clerk's office, Municipal Building, Montclair, N. J.

The Council reserves the right to award the contract to the lowest bidder or bidders who furnish satisfactory evidence of their ability to carry out the contract as regards time, quality of work to be done and materials furnished. The contract will not necessarily be awarded to the lowest bidder. The quality of oil furnished together with its price will both receive consideration in making the award.

HARRY TRIPPETT, Town Clerk.

Bids received until Apr. 20, 1915.

Section 1, River Road

Mercer County, N. J.

Sealed proposals will be received by the Board of Chosen Freeholders of the County of Mercer, at their place of meeting, Court House, Trenton, N. J., on Tuesday, April 20, at 2:30 p.m., and then opened—

For the furnishing of materials, tools, machinery and labor necessary for the efficient and proper grading of the roadway, side ditches, side banks, and rolling, spreading and laying of road metal, and all the work of construction incidental thereto, for the improvement of the road known as "Section 1, River Road," with concrete. Said road beginning at Washington's Crossing station, minus 5 plus 0, in the township of Hopewell, and ending at station 100, plus 60.

As a guarantee of good faith, and to secure the County of Mercer from any loss by failure to comply with the terms of the bid, all bidders shall accompany their bid with a certified check, payable to the order of Joseph H. Black, county collector, in the sum of one thousand ($1,000) dollars, or like amount in cash, as a guarantee that if the contract shall be awarded to him he will, within thirty (30) days, execute an agreement in writing with the Board of Chosen Freeholders of the county of Mercer to perform the work according to the plans and specifications. Upon failure by the contractor to enter into said agreement with the Board of Chosen Freeholders, said certified check or cash shall be forfeited and considered as liquidated damages.

All bids must be enclosed in a sealed envelope addressed to the Board of Chosen Freeholders of Mercer County, New Jersey, and bearing on the outside the name and address of the bidder. The bid must be delivered at the Court House, Trenton, N. J., on or before April 20, 1915, at 2:30 p.m., and shall be plainly written on the outside of the envelope "Proposal for Section 1, River Road."

No proposal will be received or opened unless these conditions are complied with on the part of the bidder.

The check of the successful bidder will be held until the contract is executed, together with a bond for a sum not less than the estimated cost of the road when completed, conditioned for the faithful performance of the contract in accordance with the plans and specifications, and approved by the Board of Chosen Freeholders or its committee.

Plans and specifications are on file in the office of Theodore Tobish, county engineer, Court House, Trenton, N. J., and at the office of the Commissioner of Public Roads, State House, Trenton, N. J., and may there be examined.

The form of proposal on file with the said county engineer must be the form used in making bids.

The right is reserved to reject any or all bids, or to waive any defect or informality in any bid, if deemed in the interest of the county to do so.

JOHN J. POWER, Director.

Bids received until Apr. 12, 1915.

Resurfacing Asphalt

Montclair, N. J.

Sealed bids will be received by the Town Clerk of the Town of Montclair for furnishing asphalt for use in resurfacing streets in the Town of Montclair during 1915.

Bids will be required to state the price per gallon f.o.b. Montclair in tank cars or in barrels, all according to the specifications on file in the office of Edgar S. Closson, Town Engineer and there to be seen.

Bids to be acceptable must be submitted on the proposal blank furnished by the Town; must be accompanied by a certificate of the source of supply and method of manufacture; a certified analysis of the asphalt; and a one pound sample of the asphalt which it is proposed to furnish.

The estimate of the amount of asphalt required is 50,000 gallons.

Each bid must be accompanied by a certified check for $250.00 to insure the signing of the contract and bond by the successful bidder within two weeks after the award shall have been made.

All bids must be in by Monday, April 12th, 1915, at 8 P.M. at the Town Clerk's office, Municipal Building, Montclair, N. J.

The Council reserves the right to award the contract to the lowest bidder or bidders who furnish satisfactory evidence of their ability to carry out the contract as regards time, quality of work to be done and materials furnished. The contract will not necessarily be awarded to the lowest bidder. The quality of asphalt furnished together with its price will both receive consideration in making the award.

HARRY TRIPPETT, Town Clerk.

Bids received until Apr. 20, 1915.

Trenton-Allentown Turnpike

County of Mercer, State of New Jersey.

Sealed proposals will be received by the Board of Chosen Freeholders of the County of Mercer, at their place of meeting in the Court House, in the City of Trenton, County of Mercer, N. J., Tuesday, April 20, 1915, at 2:30 P.M., and then opened:

For furnishing all material, tools, machinery and labor necessary for the efficient and proper rolling, spreading and laying of a bituminous concrete surface, and all other work incidental thereto, on a certain macadam highway in Mercer County; known as the Trenton-Allentown Turnpike, beginning at or near Bromley Inn and extending to Mercerville.

As a guarantee of good faith and to secure the County of Mercer from any loss by failure to comply with the terms of said bid, all bidders shall accompany their bid with a certified check for $1000, payable to the order of Joseph H. Black, County Collector, or a like amount in cash. Upon the failure by the contractor to enter into an agreement in writing to perform the work according to the specifications, said certified check or cash shall be forfeited and considered as liquidated damages.

All bids containing proposals must be enclosed in sealed envelopes addressed to the Board of Chosen Freeholders of the County of Mercer, N. J., and bearing on the outside the name and address of the bidder.

No proposal will be received or opened until these conditions are complied with on the part of the bidder.

The check or cash of the successful bidder will be held until the contract is executed together with a bond approved by the Board of Chosen Freeholders or its committee in an amount not to exceed the full amount of the bid, conditioned for the faithful performance of the contract in accordance with the specifications.

Specifications are on file at the office of Theodore Tobish, County Engineer, Court House, Trenton, New Jersey, and may be there examined.

The form of proposal on file with said Engineer must be the form used in making bids.

The right is reserved to reject any or all bids or to waive any defect or informality in any bid should it be to the interest of the county to do so.

JOHN J. POWER, Director.

Bids received until Apr. 23, 1915.

Thomas Indian School

Iroquois, N. Y.

Sealed proposals for Construction Work for Silo and Addition to Dairy Barn and for Construction, Heating, Plumbing and Drainage and Electric Work for Ice House, Dairy Room and Cold Storage, at the Thomas Indian School, Iroquois, N. Y., will be received by Hon. William Hunt, President, Board of Managers, Thomas Indian School, Iroquois, N. Y., until twelve o'clock noon on April 23, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of $125.00 for Silo and Addition to Dairy Barn; in the sum of $250.00 for Construction Work for Ice House, Dairy Room and Cold Storage; in the sum of $40.00 for Heating Work for Ice House, Dairy Room and Cold Storage; in the sum of $45.00 for Plumbing and Drainage for Ice House, Diary Room and Cold Storage, and in the sum of $10.00 for Electric Work for Ice House, Dairy Room and Cold Storage. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2220, 2235, 2243, 2244 and 2245. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Thomas Indian School, Iroquois, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York for each set of plans and specifications, which check will be returned when plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

FORT MONROE, Va., Mar. 17, 1915.—Sealed proposals will be received here until 12 M., Apr. 15, 1915, for furnishing material and labor required in Constructing Alterations of Casemates and Addition to Quartermaster Stables, including Plumbing and Electric Lighting. Information furnished on application to QUARTERMASTER.

Bids received until Apr. 16, 1915.

Street Paving

Scottdale, Pa.

Sealed proposals will be received by the undersigned for the Borough of Scottdale, Pa., until 7 o'clock P.M. Friday, April 16th, 1915, for the Grading, Curbing and Paving of Pittsburg Street from Vine Street to the Borough Limits, Hickory Street from the north side of Market Street to the south side of Arthur Avenue, Grove Street from the north side of Walnut Avenue to the south side of Market Street, Grove Street from the north side of Loucks Avenue to the south side of Arthur Avenue, Brooks street from the west side of Chestnut street to the East side of Hickory Street, for the following approximate quantities:

	Pittsburg Street	Hickory Street	Grove Street	Grove Street	Brooks Street
Grading	1143 cu.yds.	1633	425	288	525
Curbing	2380 lin.ft.	2731	475	475	465
Paving Standard Block	Sq.yds.	3315	612	612	580
Paving Hillside Block	3360 Sq.yds.	711	...	...	...
Backing Stone	159 Lin.ft.	159	30	30	30
Sewer Inlets	2	4	...	...	...

Bidder shall name make of Block and bid on using same.

Maker of accepted Block will be required to furnish surety bonds in the sum of two thousand dollars ($2000.00) for Pittsburg street, two thousand five hundred ($2500.00) dollars for Hickory street, two hundred fifty ($250.00) dollars for each section of Grove street and two hundred fifty ($250.00) for Brooks street, and guarantee for five years to the successful bidder and by him to be assigned to the Borough.

Each bidder shall furnish certified check for five hundred ($500.00) dollars payable to the Borough Treasurer, with bid as guarantee. The one check will be good for all streets.

Plans and specifications may be seen at the Borough Engineer's Office in the Borough Building, Scottdale, Pa.

Bids must be addressed to F. M. Newcomer, Secy., and endorsed Pittsburg, Hickory, Grove and Brooks Street Improvement.

The Borough reserves the right to reject any or all bids, or to purchase the material for said improvement.

W. N. PORTER, Burgess.
F. M. NEWCOMER,
Secretary of Council.

Bids received until Apr. 17 and 20, 1915.

Concrete Pavement

Greenwich, Conn., April 3, 1915.

Sealed proposals for about 50,000 square yards of concrete pavement will be received by the Highway Commission of the Town of Greenwich, Conn., at the Borough Court Room in the Town Hall, as follows:

For about 26,500 square yards, to be laid on portions of Field Point Road, Prospect Street, Horseneck Lane and Lake Avenue, until 3 P.M. on Saturday, April 17th, 1915;

For about 23,500 square yards, to be laid on portions of Riverside Avenue and Sound Beach Avenue, until 3 P.M. on Tuesday, April 20th, 1915.

Plans and specifications can be seen and blank form of proposal obtained at the office of the Engineer, Room 5, Greenwich Trust Co. Building, Greenwich, Conn. The right is reserved to reject all bids.

CHARLES T. WILLS, Chairman,
LUKE VINCENT LOCKWOOD,
WILLIAM F. DECKER,
ROBERT L. CHAMBERLAIN,
JOHN MAHER,
NATHANIEL A. KNAPP,
Highway Commission.

PROPOSALS TO FURNISH or furnish and erect structural steel for shed on Pier No. 18, Balboa Terminals.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10:30 a.m., May 3, 1915, at which time they will be opened in public, for furnishing or furnishing and erecting the above-mentioned articles. Blanks and general information relating to this Circular (No. 916) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 614 Whitney-Central Building, New Orleans, La., and 1086 North Point Street, San Francisco, Cal.; also from the U. S. Engineer Offices in the following cities: Seattle, Wash.; Los Angeles, Cal.; Baltimore, Md.; Philadelphia, Pa.; Pittsburgh, Pa.; Boston, Mass.; Buffalo, N. Y.; Cleveland, Ohio; Cincinnati, Ohio; Chicago, Ill.; St. Louis, Mo.; Detroit, Mich.; Milwaukee, Wis.; St. Paul, Minn.; Chattanooga, Tenn.; Louisville, Ky.; Mobile, Ala., and Galveston, Tex.; Commercial Club, Kansas City, Mo.; Chamber of Commerce, Quincy, Ill., and Commercial Club, Tacoma, Wash.—F. C. BOGGS, Major, Corps of Engineers, U. S. A., General Purchasing Officer.

Bids received until Apr. 30, 1915.

Destructor Plant

Manchester, N. H.

Sealed proposals will be received until two o'clock P.M. April 30th, 1915, for the furnishing of all labor and material and erecting in place and constructing complete in readiness for operation a refuse destructor.

Proposals shall be made in duplicate on blank forms provided (all prices to be stated in words and figures), enclosed in envelope, sealed and endorsed "Proposal for Destructor Plant," and filed with the Board of Public Works at or before the hour above stated, at which time they will be publicly opened and read.

Each proposal shall contain the full name of each person, firm, or corporation interested therein as principal, and the address of the person or the firm or the president and secretary of the corporation, bidding.

Each bidder is required to furnish evidence satisfactory to the Board of Public Works that he has sufficient means and has had sufficient experience in the manufacture of destructors of the class and size required to enable him to undertake and complete the contract herein contemplated.

Each proposal or bid must be accompanied by a check certified by a responsible bank drawn to the order of the treasurer of the City of Manchester in the sum of two (2) per cent. of the total amount of the highest bid for a complete plant. When the award of the contract is made all checks will be returned to the respective bidders except that filed with the accepted proposal or bid, which check will be returned upon signing the contract and filing the required bond. If the bidder to whom the contract has been awarded fails or refuses to enter into the contract within ten (10) days from the date of receipt of notice by the bidder that he has been awarded the contract, the certified check accompanying the proposal and the amount therein mentioned shall be forfeited to the City of Manchester as liquidated damages.

Each bidder is required to file with his proposal the following:

(a) The necessary drawings to clearly indicate to the Board of Public Works the complete arrangement and operation of the specific type of plant which the bidder proposes to install in accordance with the specifications attached; also plan and design of building, chimney and all arrangements demanded by the specifications. Drawings submitted with proposal should be rolled and not folded or creased and not be enclosed with proposal.

(b) A statement giving a complete schedule setting forth where plants of the kind he proposes to construct for the City of Manchester, N. H., have been built in the United States and Canada, when they were built and by whom, how long they have been in operation and by whom operated, if in operation at the present time by whom operated, and if not in operation, why; the capacity, operation, evaporation, temperature, labor, cost per ton of material destroyed, and any other information which might help the Board of Public Works to determine the ability, experience, and standing of the bidder in relation to his proposal and that the labor cost of destruction and all other guarantees are possible.

The Board of Public Works hereby reserves the right to reject any, any part of any, or all proposals should they deem it to be for the best interests of the City of Manchester.

Manchester, N. H., April 2, 1915.

Board of Public Works { Mayor Harry W. Spaulding, Chairman
William McElroy
Charles F. Read

Engineer—Samuel J. Lord.

U. S. ENGINEER OFFICE, Room 325 Custom House, New Orleans, La., Mar. 13, 1915.—Sealed proposals for furnishing and delivering about 10,000 cubic yards stone at South Pass and Southwest Pass, Mississippi River, will be received at this office until 11 A.M., April 13, 1915, and then publicly opened. Information on application. EDWARD H. SCHULZ, Maj., Engrs.

U. S. ENGINEER OFFICE, Nashville, Tenn., March 13, 1915.—Sealed proposals for construction and erection of steel gates for Locks B and C, Cumberland River, will be received at this office until 11 a.m., April 12, 1915, and then publicly opened. Information on application. H. BURGESS, Major, Engineers.

U. S. ENGINEER OFFICE, First District, New York City, Room 710 Army Building, 39 Whitehall Street, New York, N. Y., March 27, 1915.—Sealed proposals for constructing storehouses and a boat shed on Mill Rock at Hell Gate in East River, N. Y., will be received at this office until 12 M., April 26, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Eng'rs.

U. S. ENGINEER OFFICE, Cincinnati, O., April 7, 1915.—Sealed proposals for furnishing and erecting steel lock gates for Dam No. 29, Ohio River, will be received at this office until 2 p.m., April 27, 1915, and then publicly opened. Information on application. H. JERVEY, Lt.-Col., Engrs.

Bids received until Apr. 21, 1915.

Pumping Station Equipment

Durham, N. C.

Sealed Proposals will be received by the Mayor and Board of Aldermen of the City of Durham, N. C., at the City Hall, until 3 P.M. April 21st, 1915, for "Pumping Station Equipment" consisting of three-million gallon Crank and Flywheel Pumping Engines, Turbine driven Centrifugal Pumps, Feed Pumps, Open Feed Water Heaters, 5 K.W. and 7½ K.W. D.C. Electric Lighting Units, Manning Boilers.

Proposals must be marked "Proposal for Pumping Station Equipment."

All proposals must be upon blank forms provided in Proposal and Contract.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the bid, as an evidence of good faith.

Specifications, Contract and Proposal forms will be on file in the office of the City Engineer in Durham or will be mailed upon application to the Engineer at Charlotte, N. C., when accompanied by payment of Ten Dollars to insure their return in good condition within thirty days after the date of receiving proposals.

The right is reserved to reject any or all proposals or to consider proposals on alternate equipment.

W. J. BROGDEN, Mayor,
GEO. W. WOODWARD, Clerk.

Engineer—
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Apr. 12, 1915.

Notice for Bridge Bids

Columbus, Mont.

Board of County Commissioners of the county of Stillwater, Montana, will receive bids for bridges on or before 10:00 o'clock A.M. of April 12th, 1915, at which time bids will be opened.

Bids to be on the following bridges:

No.	Where	Length of Bridge, feet
9	Skew Bridge, Shane Creek	22
11	Butcher Creek, at Campbell place	30
12	East Rosebud, 5 miles above L. C. Piper	60
13	West Rosebud, above Fishtail	55
14	Absarokee, Rosebud River, riveted span	95

The board reserves the right to reject any or all bids. All bids must be addressed to Lloyd B. Barley, County Clerk, Columbus, Mont., inclosing certified check of 5 per cent. of bid.

For further particulars, specifications and plans for these bridges, write or call on R. W. BARR, County Surveyor.

By order of Board of County Commissioners.

B. F. HARRIS, Chairman,
By Lloyd B. Barley, County Clerk.

Dated this 6th day of March, 1915.

Bids received until Apr. 14, 1915.

Highway Improvements

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., Wednesday, April 14, 1915, for the improvement of Highways in the following counties:

Albany (approx. length, 2.80); Allegany (approx. length, 6.71); Essex (approx. length, 5.34); Franklin, 3 highways (5.50, 4.91, 11.41); Monroe, 2 highways (2.14, 1.87); Oneida (approx. length, 6.65); Oswego, 3 highways (5.41, 5.22, 3.66); St. Lawrence (approx. length, 6.66); Wyoming (approx. length, 3.88).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

U. S. ENGINEER OFFICE, Room 325 Custom House, New Orleans, La., Mar. 29, 1915—Sealed proposals for furnishing coal for United States plant from July 1, 1915, to June 30, 1916, will be received at this office until 11 A.M., May 3, 1915, and then publicly opened. Information on application. EDWARD H. SCHULZ, Maj., Engrs.

U. S. ENGINEER OFFICE, Louisville, Ky., March 19, 1915.—Sealed proposals for furnishing and delivering American Portland Cement for Dam 43, Ohio River, will be received here until 12 noon, central time, April 19, 1915, and then publicly opened. Information on application. J. C. OAKES, Major, Engrs.

GOVERNORS ISLAND, N. Y. H., Mar. 15, 1915.—Sealed proposals, in triplicate, for furnishing Forage and Straw (three months' and a year's supply) and FUEL, GASOLINE, MINERAL OIL, BEEF and MUTTON, required in Eastern Department during year commencing July 1, 1915, will be received here until 11 a.m., April 14, 1915. Information furnished on application to Department Quartermaster.

U. S. ENGINEER OFFICE, 540 Federal Building, Buffalo, N. Y., March 16, 1915.—Sealed proposals for dredging in Niagara River, N. Y., will be received at this office until 11 a.m., April 15, 1915, and then publicly opened. Information on application. J. G. WARREN, Col., Engrs.

U. S. ENGINEER OFFICE, Wheeling, W. Va., March 29, 1915.—Sealed proposals for furnishing and delivering one service boat, designated No. 10A3, for Lock No. 10, Kanawha River, W. Va., will be received at this office until 11 a.m. (Eastern time), April 29, 1915, and then publicly opened. Information on application. T. H. JACKSON, Major, Engrs.

PROPOSALS FOR MANILA BOLT ROPE—Mississippi River Commission, First and Second Districts, Custom House, Memphis, Tennessee, March 20, 1915.—Sealed proposals for furnishing and delivering 62,200 lbs. pure manila bolt rope, will be received at this office until 11 a.m., April 10, 1915, and then publicly opened. Information furnished on application. E. M. MARKHAM, Maj., Engrs.

U. S. ENGINEER OFFICE, Norfolk, Va., Apr. 7, 1915.—Sealed proposals for furnishing about Three Thousand (3,000) Tons of Bituminous Coal will be received at this office until 12 M., May 7, 1915, and then publicly opened. Information on application. J. P. JERVEY, Lt.-Col., Engrs.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale**, 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 35, technical school and 12 years' broad experience; New York interview. P. W. 42, Eng. News.

MECHANICAL ENGINEER, three years' experience superintending installation of building specialty; also sales experience. P. W. 93, Eng. News, Chicago.

Civil Engineers

GRADUATE ENGINEER, married, wishes work of any kind; can fill any position from axeman to engineer-in-charge; good draftsman; eight years' excellent engineering experience; references. P. W. 101, Eng. News.

GRADUATE C. E., 12 years' experience in railroads, municipal, hydraulic and frog and switch work, desires position in the East. P. W. 975, Eng. News, Chicago.

CIVIL ENGINEER-SUPERINTENDENT; Assoc. M. Am. Soc. C. E., Member Am. Soc. Test. Mats.; concrete testing and proportioning specialist; experience on buildings, ship canal, locks, docks, dams, breakwaters, railways, roads, mines. P. W. 82, Eng. News.

GRADUATE CIVIL ENGINEER wants work of any kind in the engineering line; five years' experience, land surveys, canal, roads, sewers and street paving. P. W. 76, Eng. News.

CIVIL ENGINEER, 26, technical graduate, five years' experience in railroad maintenance and municipal engineering and construction. Good references. P. W. 62, Eng. News, Chicago.

CIVIL ENGINEER, 11 years' varied experience, railroad construction, location and valuation surveys; excellent highway experience; at present in charge of work. P. W. 39, Eng. News, Chicago.

CIVIL ENGINEER; college graduate; Assoc. M. Am. Soc. C. E.; 10 years' experience, design and construction, docks, bridges, roads, canals, surveys. P. W. 21, Eng. News.

GRADUATE CIVIL ENGINEER; 8 years' general experience, four on construction, railroad and land surveying, concrete, sewers, water lines. P. W. 49, Eng. News.

GRADUATE CIVIL ENGINEER; 6 years' experience factory construction and structural drafting; best references. P. W. 58, Eng. News.

TECHNICAL GRADUATE, 25, three years' estimating, construction and office experience. P. W. 111, Eng. News.

Bridge and Structural

STRUCTURAL ENGINEER, graduate, M. Am. Soc. C. E., expert designer of steel and reinforced concrete for industrial buildings, tall office buildings and bridges; good executive and personality. P. W. 63, Eng. News.

RESPONSIBLE POSITION wanted, with consulting engineer or contractor. Have designed important structures and am especially efficient handling complicated work. City buildings, industrial and power plants; reinforced concrete. New York interview. P. W. 106, Eng. News.

STRUCTURAL ENGINEER; Assoc. M. Am. Soc. C. E., ten years' experience on tall buildings and bridges; past 5 years in charge of designing for architect of national prominence desires to make change; location middle west. P. W. 105, Eng. News.

Surveyors

YOUNG MAN with 11 years' experience in railroad and general engineering desires position as transitman on any class of work; location immaterial; best references. P. W. 70, Eng. News.

I. C. S. GRADUATE, 20, two years' experience in surveying, drafting; moderate salary. C. E. Norcross, Pemberton, N. J.

I. C. S. STUDENT, age 20, desires position as chainman or rodman with some engineering company in New England or New York. P. W. 107, Eng. News.

SURVEYOR AND DRAFTSMAN; special track work, steam and electric, city and interurban construction, municipal improvements. P. W. 108, Eng. News.

INSTRUMENTMAN, eight years' experience, three tropics, go anywhere. Will pay bonus. P. W. 110, Eng. News.

TRACER of architectural, structural and bridge drawings. Accurate and neat, also blueprinting, best references, moderate salary. P. W. 104, Eng. News.

YOUNG MAN, 20, with 3 years' practical experience as rodman, leveler, transitman, draftsman computer, desires position. P. W. 91, Eng. News.

Draftsmen

FIRST CLASS STRUCTURAL DRAFTSMAN; 12 years' experience detailing, estimating, checking, squadman; all lines work; best reference; desires position. P. W. 56, Eng. News.

Superintendents, Etc.

CONSTRUCTION ENGINEER, 29, technical graduate, six years' experience on construction work, desires position with established contracting firm; willing to make small investment; employed at present. P. W. 34, Eng. News.

YOUNG GRADUATE ENGINEER having had at least one year's experience in the making of structural steel shop drawings, to learn designing a special class of structures; moderate salary. P. 84, Eng. News.

SUPERVISING ENGINEER or inspector for construction work, experienced on concrete construction. P. W. 94, Eng. News, Chicago.

CONTRACTING ENGINEER, 29, married; technical education; five years as principal assistant and right-hand man on $5,000,000 of work to vice-president and chief engineer of large firm of contracting engineers on heavy pneumatic and open foundation bridge work and general contracting; position required engineering and executive ability. P. W. 109, Eng. News.

MANAGER or GENERAL SUPERINTENDENT, 20 years experience handling and getting work. Am thoroughly familiar with all kinds of concrete construction, water-works, reservoirs, dams, filtration plants, sewers, sewage disposal, railroad construction, wood and concrete piling. P. W. 113, Eng. News.

SALES ENGINEER, experienced in design, selling, estimating installing power plants and heating systems desires connection with New York firm. Salary and commission. P. W. 112, Eng. News.

GRADUATE ENGINEER with seven years' responsible experience checking designs of steel and mill work for power plants, etc., desires similar position in New York City. P. W. 103, Eng. News.

CARPENTER FOREMAN; concrete forms or heavy timber work; references. P. W. 102, Eng. News.

ENERGETIC AND AMBITIOUS YOUNG MAN, with knowledge of stenography and drafting, wishes position in office of engineer or contractor where conscientiousness and attention to duty will be appreciated. P. W. 92, Eng. News.

ENGINEER; 27; single; 5 years' experience on railroad construction and 3 years on surveys; 3 years in Brazil; speaks Portuguese; will consider any offer. P. W. 96, Eng. News.

REINFORCED CONCRETE ESTIMATOR, designer, superintendent; graduate civil engineer, 28; six years' experience in contracting firms, reinforced-concrete bridges, foundations and buildings; at present employed by N. Y. contractor; desires to change. P. W. 115, Eng. News.

SALES ENGINEER, 28, married, now employed, desires change; experienced in purchase and sale of new and second hand contractors' equipment, timber, machinery, structural steel and bridges; I want a permanent position with a first class company where intelligence, hard work, sobriety and results determine position and salary; for the right people I will start at the bottom, if necessary, and learn your business and methods before expecting a big salary or attempting sales; some sales correspondence and advertising experience; wou'd make a good advertising man along lines indicated; good appearance and personality; used to traveling. P. W. 90, Eng. News, Chicago.

SUPERINTENDENT or General Foreman; 15 years' experience, all kinds of concrete work; good solicitor and estimator; go anywhere. P. W. 98, Eng. News.

ENGINEER, resourceful designer; 12 years' experience along mechanical and structural lines; thorough theoretical knowledge; would invest some capital. P. W. 97, Eng. News, Chicago.

POSITIONS OPEN

ESTIMATOR on structural steel and light iron work, with some knowledge of detailing; also detailers on structural steel work for tall buildings; give particulars. P. 65, Eng. News.

COMPETENT ENGINEER to take full charge of motor equipment and 400-hp. power plant operating on natural gas in a western Ontario factory; none but first class man with gas engine experience need apply; references absolutely necessary. P. 100, Eng. News.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

LABOR BUREAUS

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

CONTRACTORS or others employing laborers, skilled or unskilled. We supply laborers from coast to coast. No order too small or too large. Trial order will convince you. Maurice E. Finn's Labor Agency, largest in New England, 27 Washington St., Boston, Mass.

LABORERS FURNISHED free of expenses for any kind of construction work. The Empire Labor Agency, 93 Mulberry St., New York. (Tel. 1745 Franklin.)

WANTED

AGENTS AND SALESMEN

ENGINEER OR DRAFTSMAN to sell WINSLOW direct-reading, beam and reinforced concrete calculating SLIDE-RULES. Simple, quick. Good opportunity for first agent in each city. Henry W. Tomlinson, 62 East Van Buren St. Chicago.

SALES REPRESENTATION OF REAL VALUE—An expert and successful sales organization with technical and engineering ability, which has developed and standardized several well known materials and devices with the leading construction engineers and architects, public service, railway, and large industrial corporations in New York and vicinity, desires an additional account on a commission basis. W. 95, Eng. News.

MISCELLANEOUS

CIVIL ENGINEER, graduate, will prepare designs, details, estimates and reports; inspecting; New York location. M. 99, Eng. News.

BUSINESS OPPORTUNITIES

ENGINEER'S GRAND OPPORTUNITY—Long-established young contractor with unquestionable reputation and expert knowledge in the economical construction of public and private work and with exceptional ability in securing and executing profitable contracts desires to meet young graduate civil engineer who is willing to learn the contracting and construction line and take an active interest with an investment of from $15,000 to $25,000. B. O. 872, Eng. News.

AN ENGINEER of ability and standing in the Pacific northwest desires to represent three or four high class concerns as manufacturers agent. Only people who believe that the Pacific coast business warrants the expenditure of expenses advanced against commissions, desired. The only way to get that business is to go after it with a high grade man. Now is the time. B. O. 114, Eng. News.

CORRESPONDENCE COURSES

of instruction and practical work in designing and estimating the cost of structures of steel and reinforced concrete have been prepared by a well known Consulting Engineer,

FOR ENGINEERS

The personal attention of the engineer who prepared these courses is given to all the work submitted by each subscriber and therefore the membership is limited.

Two separate courses are offered, under the following designations,—

STRUCTURAL STEEL DESIGNING
REINFORCED CONCRETE ENGINEERING

These courses are *not* a duplication of the work given in technical colleges on these subjects, and are *not* a re-hash of matter taken from text books. This work differs from either because it gives the short concise practical methods actually used by engineers in such work, supplemented by labor saving tables and diagrams. They

PROVIDE ACTUAL EXPERIENCE

and save years spent in mis-directed efforts which are a necessary result of trying to acquire experience without the direct aid and assistance of an engineer properly experienced in such work.

Address M. 966, Engineering News

EXAMINATION FOR

ENGINEER

(With Knowledge of Sewage Disposal)

Salary $4,000 per annum.

Duty of Engineer will be to organize a staff to utilize to best advantage vast amount of documentary records, and investigations concerning harbor pollution; to continue work of Metropolitan Sewage Commission and institute constructive work for purification of waters surrounding the City. Candidates must show extended study of municipal problems of sewage disposal and an experience of ten years as Sanitary Engineer, five years of which should have been in sewage disposal work.

Subjects and weights are: Experience, 5; Technical, 5. A qualifying physical examination will be given.

Applications will be received from April 6 to 4 p.m. April 20, at Room No. 1400, Municipal Building.

Municipal Civil Service Commission

New York N. Y.

For Sale
Second Hand Equipment

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

Equipment Wanted items appear at the end of this list.

N

ADVERTISERS NAMES are abbreviated in most of these items. Complete names and addresses are as follows:

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.
BRADEN, James C., 26 Cortlandt St., N. Y. City.
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
DOUGLAS, Geo. B., 29 Broadway, New York.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
JENNISON-Wright Co., The, 313 Huron St., Toledo, O.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal and Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

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2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

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[Standard Gauge]

45—80,000 lb. flat cars, cheap.—WHITNEY.

[36" Gauge]

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[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

10—1 yd. swivel end dump cars.—PIPE.

80—36 cu.ft. Koppel "V" body.—SCHMIDT.

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2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

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2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

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